

DATA ITEM DESCRIPTION

Form Approved
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Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. TITLE Radiation Hazard Control Procedures (RHCP)		2. IDENTIFICATION NUMBER DI-SAFT-80184A	
3. DESCRIPTION / PURPOSE 3.1 The RHCP provides the data describing and defining radio frequency (RF) power density and x-ray characteristics for ground electronic systems, subsystems, equipment, components, and end items.			
4. APPROVAL DATE (YYMMDD) 950809	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) F/AFDTC-SE	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
7. APPLICATION / INTERRELATIONSHIP 7.1 This Data Item Description (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement as delineated in the contract. 7.2 This DID is applicable to all ground electronic systems, subsystems, equipment, components, and end items acquired by the government. In addition, it is applicable to airborne emitters which plan testing at Eglin test ranges. 7.3 This DID supersedes DI-SAFT-80184.			
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS	9b. AMSC NUMBER F7161
10. PREPARATION INSTRUCTIONS 10.1 <u>Format</u> . Contractor format is acceptable. 10.2 <u>Content</u> . The RHCP contains technical information describing and defining RF power density and x-ray characteristics for electronic systems. Where applicable, previously furnished documentation shall be referenced throughout the package. The RHCP includes the following information: 10.2.1 <u>Preliminary data</u> . This section contains information which will indicate the prediction of RF power densities for personnel directly in front of, adjacent to, and behind the radiating element of the end item and adjacent to any component of the end item which is suspected of producing 0.01 watt/cm ² under any conditions of operations and maintenance including conditions wherein maintenance required visual inspection with enclosures removed. This section includes a detailed list of the proposed measuring equipment. 10.2.2 <u>Final data</u> . The information based on calculations or actual measurements of the end item which will accurately define and illustrate areas wherein an RF power density is unsafe for personnel. Describe the operating characteristics under which the information was derived along with the operating parameters of the end item. (Continued on Page 2)			
11. DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A. Approved for public release, distribution is unlimited.			

Block 10, Preparation Instructions (Continued)

10.2.3 Baseline data. Includes the following information:

- a. Nomenclature of emitter: AN/(number) or manufacturer and model number.
- b. Date by which construction or modification is projected to start and scheduled date of operation.
- c. Maximum transmitter peak power (kilowatts).
- d. Type of emission (pulse, CW, voice, etc.).
- e. Pulse width (micro seconds) and pulse repetition frequency (pulses/second); or maximum duty cycle.
- f. Frequency and mission bandwidth.
- g. Antenna characteristics:
 - (1) Type of antenna and dimensions.
 - (2) Gain in dB.
 - (3) 3dB beamwidth (degrees or radians).
 - (4) Antenna center height above ground level in feet.
 - (5) Scan rate; horizontal and vertical (surveillance radars only) in degrees/second.
- h. System insertion losses between transmitter and antenna in dB.
- i. Polarization of transmitted wave.
- j. Safety devices for azimuth and elevation control (stops/locks/cutouts; mechanical/electrical/software) with a description of the device and limitations.

10.2.4 X-radiation. Describe the method employed to determine the levels of x-radiation, including description of the instrumentation to be used for the determination for both quality and quantity. Describe the method by which measurements for these factors shall be taken throughout the operating capability range of the electronic or electrical equipment. Includes preliminary and final x-ray survey data.